## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

tetemational application No. PCT/GB2004003596   20.08.2004   20.08.2003   20.08.2003   20.08.2003   20.08.2003   20.08.2003   Intermational Patent Gassification (IPC) or national described in and IPC PT6F963   Applicant   REACTEC LTO, et al.	Applicant's or agent's file reference rte.3158.pct.ac.j		reference	FOR FURTHER A	CTION	See Form PCT/PEA416		
PTREPS.3  Applicant REACTEC LTD. et al.  This report is the international preliminary examination report, established by this international Preliminary Examining Authority under Acticle 35 and transmitted to the applicant according to Article 36.  This report is also accompanied by ANNEXES, comprising:  a. Sent to the applicant and to the international Bureaus a total of 5 sheets, as follows:  sheets of the description, claims endor fearwings which have been amended and are the basis of this report andor sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  sheets of the description, claims endor fearwings which have been amended and are the basis of this report andor sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  sheets which supersede seriler sheets, but which this Authority considers contain an amendment that goes beyond the discincture in the international application as filled, as indicated in tiem 4 of Box lio, I and the Supplemental Box.  (sent to the International Eureau only) is total of (indicate type and number of electronic corrients).  Box Ro. II is report contains indications relating to the following items:  Sox No. II Box is port contains indications relating to the following items:  Sox No. II Box III Non-establishment of opinion with regard to novelty, Inventive step and industrial applicability Description of Invention Reasoned statement under Article 36(2) with regard to novelty, Inventive step or Industrial application Box No. VII Cartain defects in the international application  Box No. VII Cartain defects in the international application  Date of submission of the demand  Date of completion of this report  18.03.2005  Note the international preliminary authority address of the informational preliminary axamining aumority.					(day/month/year)		ar)	
REACTEC LTO. et al.  1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 3d.  2. This REPORT consists of a total of 5 sheets, including this cover sheet.  3. This report is also accompanied by ANNEXES, comprising:  a. Sent to the applicant and to the International Bureau) a total of 5 sheets, as follows:  Sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing recilifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  □ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disciosure in the international application as filled, as indicated in item 4 of Box No. 1 and the Supplemental Box.  b. □ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence litting and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Using (see Section 802 of the Administrative Instructions).  4. This report contains indications relating to the following items:  □ Box No. 1 Priority  □ Box No. 2 Certain defects in the international application  □ Box No. 2 Certain defects in the international application  □ Box No. 2 Certain defects in the international application  □ Box No. 2 Certain defects in the international application  □ Box No. 2 Certain defects in the international application  □ Box No. 2 Certain defects in the international application  □ Box No. 2 Certain defects in the international application  □ Box No. 3 Certain defects in the international application  □ Box No. 3 Certain defects in the international application  □ Box No. 3 Certain defects in the internat								
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# MP12 Rec'd PC7/7 2 1 1 2 2006

International application No. PCT/GB2004/003595

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

	Box No.	I Basis of the report				
1.	With regarding	With regard to the <b>language</b> , this report is based on the international application in the language in which it was iled, unless otherwise indicated under this item.				
	wnic   ir   p	report is based on translations from the original language into the following language, his the language of a translation furnished for the purposes of: Iternational search (under Rules 12.3 and 23.1(b)) ublication of the international application (under Rule 12.4) Iternational preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements* of the international application, this report is have been fumished to the receiving Office in response to an invitation un report as "originally filed" and are not annexed to this report):		ard to the elements" of the international application, this report is based on (replacement sheets which in fumished to the receiving Office in response to an invitation under Article 14 are referred to in this "originally filed" and are not annexed to this report):				
	Description	on, Pages				
	1-37	as originally filed				
	Claims, N	umbers				
1-25		received on 20.05.2005 with letter of 13.05.2005				
	Drawings	, Sheets				
	1/7-7/7	as originally filed				
	□ a se	quence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.	<ul> <li>□ The amendments have resulted in the cancellation of:</li> <li>□ the description, pages</li> <li>□ the claims, Nos.</li> <li>□ the drawings, sheets/figs</li> <li>□ the sequence listing (specify):</li> <li>□ any table(s) related to sequence listing (specify):</li> </ul>					
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		ne description, pages ne claims, Nos. ne drawings, sheets/ligs ne sequence listing (specify): ny table(s) related to sequence listing (specify):				
	* If i	tem 4 applies, some or all of these sheets may be marked "superseded."				

Form PCT/PEA/409 (January 2004)

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003595

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-25

Claims No:

Inventive step (IS)

Yes: Claims

No:

1-25

Industrial applicability (IA)

Yes: Claims

Claims

1-25

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/GB2004/003595

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: PATENT ABSTRACTS OF JAPAN vol. 0090, no. 42 (M-359), 22 February 1985 (1985-02-22) & JP 59 183138 A (NIHON HATSUJIYOU KK), 18 October 1984 (1984-10-18)

D2: US-B1-6 427 813 (CARLSON J DAVID) 6 August 2002 (2002-08-06)

D3: US-A1-6 158 470 (IVERS ET AL.) 12 December 2000 (2000-12-12)

2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

A variable damper comprising;

an outer member (1) including a magnetically conductive sleeve;

an inner member (2) comprising a shaft;

an electromagnet (4) supported between the members;

wherein a chamber (5,6,7) between the outer and inner members is at least partially filled with magnetorheological fluid, such that when a magnetic field is applied to the chamber, the effective viscosity of the fluid increases such that relative motion of the inner and outer members is opposed;

the electromagnet is supported in the chamber such that it provides a fluid flow path (7) between the inner member and the electromagnet,

the region between the electromagnet and the sleeve defining a control region in which the magnetic field is concentrated.

The subject-matter of claim 1 therefore differs from this known variable damper in that a second fluid flow path is provided between the inner member and the

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-January 2004)

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/GB2004/003595

electromagnet.

The problem to be solved by the present invention may therefore be regarded as improving the performance of the variable damper, especially for low amplitude vibrations.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

Document D3 proposes an additional passage in the piston of a magnetorheological damper in order to reduce harshness of the damper (see column 7, lines 1 to 6); this harshness is due to the fact that only a certain frequency range is properly controlled in the case of only one passage.

The skilled person would then combine documents D1 and D3, and thereby arriving at a variable damper according to claim 1.

- 3. The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 12, which therefore is also considered not inventive.
- 4. Dependent claims do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D1 to D3 and the corresponding passages of the Written Opinion of the International Search Authority from 15 April 2005.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-January 2004)